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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/626,336	07/24/2003	Justin K. Brask	ITL.1022US (P16709)	1387	
. 75	90 09/02/2005		EXAM	EXAMINER	
Timothy N. Ti TROP. PRUNE			NADA	V, ORI	
STE 100			ART UNIT	PAPER NUMBER	
8554 KATY FWY HOUSTON, TX 77024-1841			2811		
110001011, 111 770211011			DATE MAILED: 00/02/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
		BRASK ET AL	0,
Office Action Summary	10/626,336		
· · · · · · · · · · · · · · · · · · ·	Examiner	Art Unit	
The MAILING DATE of this communication a	Ori Nadav	vith the correspondence addre	
Period for Reply	opears on the cover sheet v	nar me correspondence addre	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN .136(a). In no event, however, may a d will apply and will expire SIX (6) MC tte, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this commandation (as u.s.c. § 133).	
Status			
1) Responsive to communication(s) filed on 25	July 2005.		
<u> </u>	is action is non-final.		
3) Since this application is in condition for allow	ance except for formal ma	tters, prosecution as to the m	erits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
 4) ☐ Claim(s) 7-13 is/are pending in the application 	n		
4a) Of the above claim(s) is/are withdr			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>7-13</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
	205		
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) a		hy the Evaminer	
	•	•	
Applicant may not request that any objection to th Replacement drawing sheet(s) including the corre			1 101(4)
11) The oath or declaration is objected to by the I	•	• ,	` '
	Examiner. Note the attack	d office Action of form 1 10-	132.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	in priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	aka hawa baasa wasa Wasal		
1. Certified copies of the priority docume		A1'1' A1-	
2. Certified copies of the priority docume			
3. Copies of the certified copies of the pr	•	n received in this National Sta	age
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,		
* See the attached detailed Office action for a list	st of the certified copies no	t received.	
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		Informal Patent Application (PTO-15	52)
.S. Patent and Trademark Office	Action Summary	Part of Paper No./Mail Da	te 072505

DETAILED ACTION

In view of the appeal brief filed on 07/25/2005, PROSECUTION IS HEREBY REOPENED. A rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 7-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Hwu et al. (6,887,310).

Hwu et al. teach in figure 1 and related text (column 3, lines 18-37) a method comprising forming a metallic precursor 5 directly on a semiconductor substrate 1 and oxidizing said metallic precursor in a liquid oxidizer.

Regarding claims 11 and 12, Hwu et al. teach forming the metal oxide dielectric of hafnium, zirconium, or tantalum (column 5, line 13), and using physical vapor deposition to deposit the metallic film.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hwu et al. in view of Tsuzumitani et al. (6,645,807).

Hwu et al. teach substantially the entire claimed structure, as applied to claim 7 above, except using a liquid oxidizer selected from the group including solutions of 03, H2O2 and organic peroxide.

Tsuzumitani et al. teach in figure 1 and related text forming a metal oxide dielectric 7A using a liquid oxidizer selected from the group including solutions of 03, H2O2 and organic peroxide (column 7, lines 42-45).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a liquid oxidizer selected from the group including solutions of 03, H2O2 and organic peroxide, in Hwu et al.'s device, in order to use the appropriate material for the application in hand. Note that substitution of materials is not patentable even when the substitution is new and useful. Safetran Systems Corp. v. Federal Sign & Signal Corp. (DC NIII, 1981) 215 USPQ 979.

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Response to Arguments

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Applicant's arguments with respect to claims 7-13 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ori Nadav whose telephone number is 571-272-1660. The examiner can normally be reached between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Loke can be reached on 571-272-1657. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

O.N. 8/30/05 ORI NADAV
PRIMARY EXAMINER
TECHNOLOGY CENTER 2800

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